VOLUME 33, PART I

SUBJECT INDEX

A

Abrasion.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.

Absorption.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Methods of Test for:
Absorption by Aggregates for Concrete (Laboratory Determinations), 711.
Absorption of Mixing Water by Aggregates for Concrete (Field Test), 713.
Untreated Paper Used in Electrical Insulation, 839.
Tentative Specifications for Clay Sewer Pipe, 691.

Accelerated Tests.
Accelerated Weathering Tests. Report of Subcommittee VIII, Committee D-8, 379.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Tentative Specifications for Wood to be Used as Panels in Accelerated Weather Tests of Paints and Varnishes, 745.

Accelerator, Concrete.
Tentative Specifications for Calcium Chloride, 762.

Acidity.
See **Neutralization.**

Adhesion Test.
Tentative Methods of Test for:
Rubber Belting Used for Power Transmission, 904.
Rubber Hose, Braided Construction, 909.
Rubber Hose, Wrapped Construction, 915.

Admiralty Metal.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.

Aggregates.
See also **Sand; Slag; Stone.**
Concrete and Concrete Aggregates. Report of Committee C-9, 285.
Research. Report of Committee E-9, 500.
Round table discussion on industrial applications of particle size measurements. Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.
A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus, by H. R. Nettles and J. M. Holme. Report of Committee C-9, Appendix III, 297. Discussion, 306.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Method of Field Test for Absorption of Mixing Water by Aggregates for Concrete, 713.
Tentative Method of Test for Absorption by Aggregates for Concrete (Laboratory Determinations), 711.

Aging Tests.
Life Tests for Rubber Products. Report of Subcommittee XV, Committee D-11, 412.
Tentative Methods of Testing Untreated Paper Used in Electrical Insulation, 839.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tentative Specifications for Insulated Wire and Cable: Performance Rubber Compound, 894.
Alkalinity.
See **Neutralization.**
Alloys, Non-Ferrous.
See also **Bearing Metal; Brass; Bronze; Copper; Electrical Resistance and Heating Alloys; Light Metals.**
(Items on non-ferrous alloys are also indexed under the materials and subjects covered by them.)
Atmospheric Corrosion of Non-Ferrous Metals and Alloys. Report of Subcommittee VI, Committee B-3, 234.
Copper and Copper Alloys, Cast and Wrought. Report of Committee B-5, 258.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 232.
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Effect of Temperature on the Properties of Metals. Report of Joint Research Committee, 209.
Electrical-Heating, Electrical-Resistance and Electric-Furnace Alloys. Report of Committee B-4, 252.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 226.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Alloy Steel.
See also **Steel.**
Effect of Temperature on the Properties of Metals. Report of Joint Research Committee, 209.
Iron-Chromium, Iron-Chromium-Nickel and Related Alloys. Report of Committee A-10, 176.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Tentative Methods of Test for:
Impact Testing of Metallic Materials, 976.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Specifications for:
Alloy-Steel Castings for Structural Purposes, 553.
Heat-Treated Steel Elliptical Springs, 564.
Normalized and Tempered Alloy-Steel Forgings for Locomotives, 559.
Aluminum.
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.

Tentative Methods of Test for:
Chemical Analysis of Aluminum and Light Aluminum Alloys, 620.
Impact Testing of Metallic Materials, 976.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Aluminum-Alloy (Duralumin) Sheet and Plate (Aluminum-Copper-Magnesium-Manganese), 610.
Aluminum-Base Alloy Die Castings, 641.
Aluminum-Base Alloy Sand Castings, 595.
Aluminum-Base Sand-Casting Alloys in Ingot Form, 592.
Aluminum-Manganese Alloy Sheet and Plate, 614.
Aluminum Sheet and Plate, 605.

Amaloy (Hot-Dip Lead).
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.

Analyses.
See **Chemical Analyses.**
(Methods of analyses, testing, etc., are also indexed under the materials and subjects covered by them.)

Analysis Test Data.
See **Statistical Analysis.**

Annual Meeting.
Annual Report of the Executive Committee, 32.
Introspection. Annual Address by the President, Cloyd M. Chapman, 27.
Papers and Publications. Report of Committee E-6, 492.
Summary of Proceedings of the Thirty-sixth Annual Meeting, 1.

Apparatus.
See **Testing Apparatus.**

Asbestos.
Tentative Specifications for Asbestos Roving, 921.

Asphalt.
See also **Bituminous Materials.**
Accelerated Weathering Tests. Report of Subcommittee VIII, Committee D-8, 379.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Tentative Methods of Testing Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules; also Asphalt Shingles Surfaced with Mineral Granules, 799.
Tentative Methods of Testing Bituminous Emulsions, 774.
Tentative Specifications for:
Asphalt Cap Sheet Surfaced with Mineral Granules, 778.
Asphalt Roll-Roofing and Shingles Surfaced with Mineral Granules, 786.
Asphalt Roll-Roofiing Surfaced with Granular Talc, 791.
Asphalt Roll-Roofing Surfaced with Powdered Talc, 795.
Heavy Weight Asphalt Roll-Roofing and Heavy Weight Asphalt Shingles Surfaced with Mineral Granules, 781.

Atmospheric Corrosion.
See **Corrosion; Weathering Tests.**
Axles.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Specifications for Normalized and Tempered Alloy-Steel Forgings for Locomotives, 559.

B

Bars.
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Steel for Bridges, 511.
Steel for Buildings, 519.
Beading Test.
Tentative Methods of Testing Rubber Belting Used for Power Transmission, 904.
Bearing Metal.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Methods of Rockwell Hardness Testing of Metallic Materials, 967.
Belting.
Tentative Methods of Testing Rubber Belting Used for Power Transmission, 904.
Benzene.
Tentative Specifications for Industrial 90 per cent Benzene (Benzol), 731.
Bituminous Materials.
See also **Petroleum Products; Road Materials; Waterproofing.**
Accelerated Weathering Tests. Report of Subcommittee VIII, Committee D-8, 379.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 374.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Tentative Methods of Test for:
Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules; also Asphalt Shingles Surfaced with Mineral Granules, 799.
Bituminous Emulsions, 774.
Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.
Tentative Specifications for:
Asphalt Roll-Roofing and Asphalt Shingles Surfaced with Mineral Granules, 786.
Asphalt Roll-Roofing Surfaced with Granular Talc, 791.
Asphalt Roll-Roofing Surfaced with Powdered Talc, 795.
Heavy Weight Asphalt Roll-Roofing and Heavy Weight Asphalt Shingles Surfaced with Mineral Granules, 781.
Blast-Furnace Slag.
See **Slag.**
Bleeding Test.
A Procedure for Measuring Bleeding of Cup Greases, by Winslow H. Herschel. Report of Subcommittee IV, Committee D-2, Appendix, 343.
Block.
Tentative Revision of:
Standard Specifications for Block for Durax Granite Pavements, 1043.
Standard Specifications for Block for Granite Block Pavements, 1043.
Standard Specifications for Block for Recut Granite Block Pavements, 1043.

Boilers.
Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 1028.
Tentative Specifications for:
High Tensile Strength Carbon-Steel Plates for Fusion-Welded Pressure Vessels (Plates over 2 in. up to and Including 4 in. in Thickness), 539.
High Tensile Strength Carbon-Steel Plates for Pressure Vessels (Plates 2 in. and Under in Thickness), 533.
Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 572.
Wrought-Iron Rivets and Rivet Rounds, 587.
Boiling Nitric Acid Test.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Bolts.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Tentative Specifications for Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.
Braid.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Brass.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Tentative Methods of Test for:
Determination of Phosphorus in Copper-Base Alloys in Ingot Form for Sand Castings, 638.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Breaking Strength.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Report of Joint Research Committee, Appendix II, 218.
Brick.
See also **Refractories.**
Tentative Method of Control Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 689.
Tentative Methods of Testing High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Tentative Specifications for Concrete Building Brick, 665.
Bridges.
Tentative Specifications for:
Carbon-Steel Castings for Industrial, Railroad and Marine Uses, 544.
Mild Steel Plates, 526.
Steel for Bridges, 511.
Brinell Hardness.
See **Hardness Testing.**

Bronze.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Tentative Methods of Test for:
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Revision of Standard Methods of Chemical Analysis of Manganese Bronze, 1030.
Building Tile.
See **Tile.**
Bursting Strength.
See **Tension Testing.**

C

Cable.
Tentative Methods of Testing Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tentative Specifications for Insulated Wire and Cable: Performance Rubber Compound, 894.
Cadmium Plate.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Calcium Chloride.
Tentative Specifications for Calcium Chloride, 762.
Calibration, Methods of.
Tentative Methods of:
Impact Testing of Metallic Materials, 976.
Rockwell Hardness Testing of Metallic Materials, 967.
Verification of Testing Machines, 1013.
Calorized.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Cars.
See **Locomotives and Cars.**
Castings.
See **Alloy Steel; Aluminum; Brass; Bronze; Cast Iron; Copper; Die Castings; Light Metals; Malleable Iron; Steel.**
Cast Iron.
Cast Iron. Report of Committee A-3, 84.
Impact Testing. Report of Subcommittee XV, Committee A-3, 87.
Microstructure of Irons in Impact Investigation, by R. M. Allen. Report of Subcommittee XV, Committee A-3, Appendix, 130.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Specifications for Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.
Cellulose Coatings.
Cellulose Ester Coatings. Report of Subcommittee XXV, Committee D-1, 327.
Tentative Methods of Test for Soluble Nitrocellulose Base Solutions, 737.

Tentative Methods of Testing Nitrocellulose Clear Lacquers and Lacquer Enamels, 741.

Cement.

Cement Reference Laboratory. Report of Subcommittee, Committee C-1, 272.

Cement. Report of Committee C-1, 269.

Round table discussion on industrial applications of particle size measurements. Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.

A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus, by H. R. Nettles and J. M. Holme. Report of Committee C-9, Appendix III, 297, Discussion, 306.

Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.

Tentative Method of Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.

C. F. R. Engine.

Tentative Method of Test for Knock Characteristics of Motor Fuels, 746.

Charpy Impact Test.

Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.

Tentative Methods of Impact Testing of Metallic Materials, 976.

Chemical Analyses.

Tentative Methods of Test for:

Chemical Analysis of Aluminum and Light Aluminum Alloys, 620.

Chemical Analysis of Metallic Materials for Electrical Heating, 648.

Determination of Phosphorus in Copper-Base Alloys in Ingot Form for Sand Castings, 638.

Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.

Tentative Revision of:

Standard Methods of Chemical Analysis of Manganese Bronze, 1030.

Standard Methods of Routine Analysis of Yellow and Orange Pigments Containing Chromium Compounds, Blue Pigments and Chrome Green, 1038.

Standard Methods of Routine Analysis of White Linseed Oil Paints, 1036.

Chromium Pigments.

Tentative Revision of Standard Methods of Routine Analysis of Yellow and Orange Pigments Containing Chromium Compounds, Blue Pigments and Chrome Green, 1038.

Chromium Steel.

Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.

Clay Hollow Tile.

See **Tile.**

Clay Pipe.

Tentative Specifications for Clay Sewer Pipe, 691.

Cloth.

See **Insulating Materials; Textile Materials.**

Coal.

Classification of Coals. Report of Sectional Committee, 357.

Coal and Coke. Report of Committee D-5, 353.

Proposed Definitions of the Terms Net Calorific Value and Gross Calorific Value. Report of Committee E-8 on Nomenclature and Definitions, 497.

Coal (*Continued*):
Round table discussion on industrial applications of particle size measurements. Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.
Tentative Method of Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.
Tentative Revision of Standard Method of Test for Size of Anthracite, 1049.
Coke.
Coal and Coke. Report of Committee D-5, 353.
Proposed Definition of the Term Coke, Report of Committee E-8 on Nomenclature and Definitions, 499.
Proposed Definitions of the Terms Net Calorific Value and Gross Calorific Value, Report of Committee E-8 on Nomenclature and Definitions, 497.
Tentative Method of Sampling Coke for Analysis, 715.
Compression-Set.
Rubber Products. Report of Committee D-11, 405.
Compression Testing.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Methods of Compression Testing of Metallic Materials, 959.
Tentative Methods of Testing High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Tentative Specifications for Clay Sewer Pipe, 691.
Concrete.
The Action of Water on Concrete, by B. Kellam. Report of Committee C-9, Appendix II, 289.
Concrete and Concrete Aggregates. Report of Committee C-9, 285.
Road and Paving Materials. Report of Committee D-4, 348.
A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus, by H. R. Nettles and J. M. Holme. Report of Committee C-9, Appendix III, 297. Discussion, 306.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Method of Field Test for Absorption of Mixing Water by Aggregates for Concrete, 713.
Tentative Method of Test for Absorption by Aggregates for Concrete (Laboratory Determinations), 711.
Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 1031.
Tentative Specifications for:
Calcium Chloride, 762.
Concrete Building Brick, 665.
Concrete for Pavements, 764.
Load-Bearing Concrete Masonry Units, 678.
Ready Mixed Concrete, 703.
Concrete Reinforcement.
Tentative Revision of Standard Specifications for Cold-Drawn Steel Wire for Concrete Reinforcement, 1028.
Condenser Paper.
Tentative Methods of Testing Untreated Paper Used in Electrical Insulation, 839.

Consistency.
Proposed Definitions of the Terms Consistency and Plasticity. Report of Committee E-1 on Methods of Testing, 445.
Tentative Methods of Test for:
Nitrocellulose Clear Lacquers and Lacquer Enamels, 741.
Penetration of Greases and Petrolatum, 756.
Soluble Nitrocellulose Base Solutions, 737.
Copper.
Copper and Copper Alloys, Cast and Wrought. Report of Committee B-5, 258.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Tentative Methods of Test for:
Determination of Phosphorus in Copper-Base Alloys in Ingot Form for Sand Castings, 638.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tentative Specifications for Insulated Wire and Cable: Performance Rubber Compound, 894.
Copper-Bearing Steel.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.
Tentative Specifications for:
Mild Steel Plates, 526.
Steel for Bridges, 511.
Steel for Buildings, 519.
Copper in Textiles.
Tentative Methods of Test for Small Amounts of Copper and Manganese in Textiles, 927.
Copper Sulfate Stain Test.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Corrosion.
See also **Weathering Tests.**
Atmospheric Corrosion of Non-Ferrous Metals and Alloys. Report of Subcommittee VI, Committee B-3, 234.
Corrosion of Iron and Steel. Report of Committee A-5, 140.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 232
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Specifications for Metallic-Coated Products. Report of Subcommittee VI, Committee A-5, 147.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.

Cotton Braid.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Cotton Fabrics.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Tentative Revision of Standard Specifications for Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1045.
Tentative Revision of Standard Specifications for Tolerances for Hose Ducks and Belt Ducks, 1044.
Tentative Specifications for Holland Cloth, 924.
Textile Materials. Report of Committee D-13, 417.
Creep Tests.
See **Temperature, Effect of.**
Creosote Oil.
Timber Preservatives. Report of Subcommittee VI, Committee D-7, 369.
Cresol Phosphate.
Tentative Specifications and Tests for Tricresyl Phosphate, 733.
Crushing Strength.
See **Compression Testing.**
Curing Concrete.
Tentative Specifications for Calcium Chloride, 762.

D

Damp-Proofing.
See **Waterproofing.**
Data, Analysis and Presentation of.
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Methods of Testing. Report of Committee E-1, 443.
Report of Committee on Manual on Presentation of Data (1933). Report of Committee E-1, Appendix, 451.
Definitions of Terms.
See **Nomenclature.**
Deleterious Substances.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Die Castings.
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Specifications for Aluminum-Base Alloy Die Castings, 641.
Tentative Specifications for Zinc-Base Alloy Die Castings, 644.
Dielectric Strength.
Tentative Methods of Testing Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.
Tentative Methods of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 828.
Distillation.
Tentative Methods of Testing Bituminous Emulsions, 774.
Drop Test.
See **Impact Testing.**

Duck Fabrics.
Tentative Revision of Standard Specifications for Tolerances for Hose Ducks and Belt Ducks, 1044.
Dunagan Buoyancy Apparatus.
A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus, by H. R. Nettles and J. M. Holme. Report of Committee C-9, Appendix III, 297. Discussion, 306.
Durability of Concrete.
The Action of Water on Concrete, by B. Kellam. Report of Committee C-9, Appendix II, 289.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Duralumin.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Tentative Specifications for Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Tentative Specifications for Aluminum-Alloy (Duralumin) Sheet and Plate (Aluminum-Copper-Magnesium-Manganese), 610.
Dust Prevention.
Tentative Methods of Testing Bituminous Emulsions, 774.
Tentative Specifications for Calcium Chloride, 762.

E

Effect of Temperature.
See **Temperature, Effect of.**
Elasticity.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Electrical Insulating Materials.
See **Insulating Materials.**
Electrical Resistance and Heating Alloys.
Electrical-Heating, Electrical-Resistance and Electric-Furnace Alloys. Report of Committee B-4, 252.
Tentative Method of Test for Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Methods of Chemical Analysis of Metallic Materials for Electrical Heating, 648.
Electrodeposited Coatings.
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Elongation.
See **Tension Testing.**
Embrittlement.
Embrittlement Investigation. Report of Subcommittee X, Committee A-5, 166.
Emulsions, Bituminous.
Tentative Methods of Testing Bituminous Emulsions, 774.
Enamels.
Tentative Methods of Testing Nitrocellulose Clear Lacquers and Lacquer Enamels, 741.

Executive Committee.
Annual Report of the Executive Committee, 32.
Exhibit Testing Apparatus.
Second Exhibit of Testing Apparatus and Machines. Annual Report of the Executive Committee, 50.
Summary of Proceedings of the Thirty-sixth Annual Meeting, 1.
Exposure Tests.
See **Corrosion; Weathering Tests.**
Extraction, Methods of.
Tentative Methods of Testing Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules; also Asphalt Shingles Surfaced with Mineral Granules, 799.
Eyebars.
Tentative Specifications for Steel for Bridges, 511.

F

Fabrics.
See **Cotton Fabrics; Textile Materials.**
Fatigue.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Felt.
Tentative Methods of Testing Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules; also Asphalt Shingles Surfaced with Mineral Granules, 799.
Tentative Specifications for:
Asphalt Roll-Roofing and Asphalt Shingles Surfaced with Mineral Granules, 786.
Asphalt Roll-Roofing Surfaced with Granular Talc, 791.
Asphalt Roll-Roofing Surfaced with Powdered Talc, 795.
Heavy Weight Asphalt Roll-Roofing and Heavy Weight Asphalt Shingles Surfaced with Mineral Granules, 781.
Fibers.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Fineness.
See **Mechanical Analysis.**
Firebox Plate.
Tentative Specifications for High Tensile Strength Carbon-Steel Plates for Fusion-Welded Pressure Vessels (Plates over 2 in. up to and Including 4 in. in Thickness), 539.
Tentative Specifications for High Tensile Strength Carbon-Steel Plates for Pressure Vessels (Plates 2 in. and Under in Thickness), 533.
Fire Brick.
See **Refractories.**
Fireproofing.
Tentative Specifications for:
Structural Clay Floor Tile, 667.
Structural Clay Load-Bearing Wall Tile, 674.
Structural Clay Non-Load-Bearing Tile, 671.
Fire Tests.
Fire Tests of Materials and Construction. Report of Committee C-5, 275.

Flax (Linen).
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Flexure Testing.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Methods of Testing High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Tentative Specifications for Concrete for Pavements, 764.
Floor Tile.
See **Tile.**
Forgings.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Revision of Standard Specifications for Quenched-and-Tempered Alloy-Steel Axles, Shafts, and Other Forgings for Locomotives and Cars, 1027.
Tentative Revision of Standard Specifications for Quenched-and-Tempered Carbon-Steel Axles, Shafts, and Other Forgings for Locomotives and Cars, 1027.
Tentative Specifications for Normalized and Tempered Alloy-Steel Forgings for Locomotives, 559.
Freezing-and-Thawing Tests.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Friction Test.
See **Adhesion Test.**
Fuel Oil.
Petroleum Products and Lubricants. Report of Committee D-2, 332.
Furring Tile.
Tentative Specifications for Structural Clay Non-Load-Bearing Tile, 671.
Fusion Tests.
Coal and Coke. Report of Committee D-5, 353.

G

Galvanic Couple Tests.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 232.
Galvanizing.
See also **Zinc.**
Embrittlement Investigation. Report of Subcommittee X, Committee A-5, 166.
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Specifications for Metallic-Coated Products. Report of Subcommittee VI, Committee A-5, 147.
Tentative Specifications for Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.
Zinc Coating of Iron and Steel. Report of Sectional Committee, 170.
Gasoline.
Petroleum Products and Lubricants. Report of Committee D-2, 332.
Tentative Method of Test for Knock Characteristics of Motor Fuels, 746.

Grain Size.
See **Metallography.**
Granite Block.
See **Stone.**
Gravel.
See also **Aggregates.**
Tentative Method of Field Test for Absorption of Mixing Water by Aggregates for Concrete, 713.
Tentative Method of Test for Absorption by Aggregates for Concrete (Laboratory Determinations), 711.
Gray Iron.
See **Cast Iron.**
Grease.
Grease. Report of Subcommittee IV, Committee D-2, 342.
A Procedure for Measuring Bleeding of Cup Greases, by Winslow H. Herschel. Report of Subcommittee IV, Committee D-2, Appendix, 343.
Tentative Method of Test for Penetration of Greases and Petrolatum, 756.
Gypsum.
Gypsum. Report of Committee C-11, 311.

H

Hardness Testing.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Tentative Methods of Rockwell Hardness Testing of Metallic Materials, 967.
Hardware.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Heat-Resistant Alloys.
See **Electrical Resistance and Heating Alloys.**
Heat Treatment.
Heat Treatment of Iron and Steel. Report of Committee A-4, 138.
Tentative Specifications for:
Alloy-Steel Castings for Structural Purposes, 553.
Carbon-Steel Castings for Industrial, Railroad and Marine Uses, 544.
Heat-Treated Steel Elliptical Springs, 564.
High Tensile Strength Carbon-Steel Plates for Fusion-Welded Pressure Vessels (Plates Over 2 in. up to and Including 4 in. in Thickness), 539.
High Tensile Strength Carbon-Steel Plates for Pressure Vessels (Plates 2 in. and Under in Thickness), 533.
Normalized and Tempered Alloy-Steel Forgings for Locomotives, 559.
Hemp.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
High Temperature.
See also **Temperature, Effect of.**
Tentative Methods of Test for:
High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Specifications for Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 572.

High-Temperature Cement.
Tentative Method of Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.
Highway Materials.
See **Bituminous Materials; Concrete; Pavements; Road Materials.**
Holland Cloth.
Tentative Specifications for Holland Cloth, 924.
Hollow Tile.
See **Tile.**
Hose.
Tentative Methods of Test for Rubber Hose, Braided Construction, 909.
Tentative Methods of Test for Rubber Hose, Wrapped Construction, 915.
Hydrostatic Test.
Tentative Methods of Test for Rubber Hose, Braided Construction, 909.
Tentative Methods of Test for Rubber Hose, Wrapped Construction, 915.

I

Immersion Tests.
See also **Corrosion.**
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 232.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.
Impact Testing.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Microstructure of Irons in Impact Investigation, by R. M. Allen. Report of Subcommittee XV, Committee A-3, Appendix, 130.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Insulating Materials.
Electrical Insulating Materials. Report of Committee D-9, 386.
Tentative Methods of Test for:
Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.
Grading Natural Mica According to Size, Commercial Quality and Thickness, 837.
High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Sheet and Tape Electrical Insulation for Thickness, 860.
Sheet and Tape Insulating Materials for Dielectric Strength, 828.
Untreated Paper Used in Electrical Insulation, 839.
Varnished Cloths and Varnished Cloth Tapes Used in Electrical Insulation, 864.
Tentative Revision of Standard Methods of Testing Electrical Porcelain, 1048.
Tentative Specifications for:
Asbestos Roving, 921.
Black Bias-Cut Varnished Cloth Tape Used for Electrical Insulation, 809.
Flexible Varnished Tubing Used in Electrical Insulation, 815.
Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Insulated Wire and Cable: Performance Rubber Compound, 894.
Iron.
See **Alloy Steel; Cast Iron; Malleable Iron; Steel; Wrought Iron.**
Izod Impact Test.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Tentative Methods of Impact Testing of Metallic Materials, 976.

J

Jute.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.

K

Knock Characteristics.
Tentative Method of Test for Knock Characteristics of Motor Fuels, 746.

L

Laboratory Inspection.
Cement Reference Laboratory. Report of Subcommittee, Committee C-1, 272.
Lacquers.
Cellulose Ester Coatings. Report of Subcommittee XXV, Committee D-1, 327.
Electrical Insulating Materials. Report of Committee D-9, 386.
Tentative Methods of Testing Nitrocellulose Clear Lacquers and Lacquer Enamels, 741.
Lead.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Life Test.
See also **Aging Tests.**
Life Tests for Rubber Products. Report of Subcommittee XV, Committee D-11, 412.
Light Metals.
Tentative Methods of Test for:
Chemical Analysis of Aluminum and Light Aluminum Alloys, 620.
Impact Testing of Metallic Materials, 976.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Aluminum-Alloy (Duralumin) Sheet and Plate (Aluminum-Copper-Magnesium-Manganese), 610.
Aluminum-Base Alloy Sand Castings, 595.
Aluminum-Base Sand-Casting Alloys in Ingot Form, 592.
Aluminum-Manganese Alloy Sheet and Plate, 614.
Aluminum Sheet and Plate, 605.
Magnesium Ingot and Stick for Remelting, 636.
Lime.
Tentative Revision of Standard Specifications for Hydrated Lime for Structural Purposes, 1031.
Locomotives and Cars.
Tentative Specifications for:
Carbon-Steel Castings for Industrial, Railroad and Marine Uses, 544.
Heat-Treated Steel Elliptical Springs, 564.
Normalized and Tempered Alloy-Steel Forgings for Locomotives, 559.

Long-Time High-Temperature Tests.
Tentative Method of Test for Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Lubricants.
See **Grease; Oils; Petroleum Products.**
Lumber.
See **Timber.**

M

Magnesium Alloys.
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Aluminum-Alloy (Duralumin) Sheet and Plate (Aluminum-Copper-Magnesium-Manganese), 610.
Magnesium Ingot and Stick for Remelting, 636.
Magnetic Testing.
Magnetic Properties. Report of Committee A-6, 173.
Malleable Iron.
Malleable Iron Castings. Report of Committee A-7, 175.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Specifications for Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.
Manganese Bronze.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Tentative Revision of Standard Methods of Chemical Analysis of Manganese Bronze, 1030.
Manganese in Textiles.
Tentative Methods of Test for Small Amounts of Copper and Manganese in Textiles, 927.
Masonry Building Units.
Hollow Masonry Building Units. Report of Committee C-10, 308.
Tentative Specifications and Tests for Load-Bearing Concrete Masonry Units, 678.
Mechanical Analysis.
Round-table discussion on industrial applications of particle size measurements, Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Revision of Standard Method of Test for Size of Anthracite, 1049.
Metallic Coatings.
See **Corrosion.**
Metallography.
Metallography. Report of Committee E-4, 489.
Microstructure of Irons in Impact Investigation, by R. M. Allen. Report of Subcommittee XV, Committee A-3, Appendix, 130.
Methods of Testing.
See **Testing, Physical Methods of.**

Mica.
Tentative Methods of Test for Grading Natural Mica According to Size, Commercial Quality and Thickness, 837.
Tentative Methods of Testing Sheet and Tape Electrical Insulation for Thickness, 860.
Modulus of Rupture.
Tentative Methods of Testing High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Moisture.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Timber. Report of Committee D-7, 360.
Molded Materials.
Electrical Insulating Materials. Report of Committee D-9, 386.
Motor Fuel.
See **Fuel Oil; Gasoline; Petroleum Products.**
Motor Lubricants.
See **Oils; Petroleum Products.**

N

Naphtha.
Tentative Specifications for Industrial Xylene (Xylol) or Solvent Naphtha, 736.
Naval Stores.
Naval Stores. Report of Committee D-17, 435.
Proposed Method of Test for Viscosity of Rosin (Ring-and-Ball Method). Report of Committee D-17, Appendix II, 441.
Proposed Methods of Sampling and Testing Rosin. Report of Committee D-17, Appendix I, 437.
Tentative Specifications for Spirits of Turpentine, 725.
Neutralization.
Tentative Methods of Testing Untreated Paper Used in Electrical Insulation, 839.
Tentative Specifications for Raw Soybean Oil, 720.
Nickel.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Nickel Steel.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Methods of Rockwell Hardness Testing of Metallic Materials, 967.
Nitric Acid Test.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Nitrocellulose.
Tentative Methods of Test for Soluble Nitrocellulose Base Solutions, 737.
Tentative Methods of Testing Nitrocellulose Clear Lacquers and Lacquer Enamels, 741.
Nomenclature.
Heat Treatment of Iron and Steel. Report of Committee A-4, 138.
Nomenclature and Definitions. Report of Committee E-8, 496.
Proposed Definition of the Term Coke. Report of Committee E-8 on Nomenclature and Definitions, 499.

Proposed Definitions of the Terms Consistency and Plasticity. Report of Committee E-1 on Methods of Testing, 445.
Proposed Definitions of the Terms Net Calorific Value and Gross Calorific Value. Report of Committee E-8 on Nomenclature and Definitions, 497.
Tentative Definitions of Terms Relating to Structural Clay Tile, 682.
Tentative Definitions and Terms Relating to Textile Materials, 944.
Tentative Revision of Standard Definitions of Terms Relating to Paint Specifications, 1040.
Tentative Revision of Standard Definitions of Terms Relating to Timber Preservatives, 1035.

Nuts.
Tentative Specifications for Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.

O

Octane Number.
Tentative Method of Test for Knock Characteristics of Motor Fuels, 746.

Oils.
Petroleum Products and Lubricants. Report of Committee D-2, 332.
Symposium on Motor Lubricants—New York Regional Meeting. Report of Committee E-6 on Papers and Publications, 493.
Tentative Methods of Testing Bituminous Emulsions, 774.
Tentative Revision of Standard Method of Test for Cloud and Pour Points, 1041.
Tentative Specifications for Raw Soybean Oil, 720.

P

Paints.
See also **Enamels; Lacquers; Paint Thinners; Paint Vehicles; Pigments; Shellac; Varnish.**
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Tentative Revision of Standard Definitions of Terms Relating to Paint Specifications, 1040.
Tentative Revision of Standard Methods of Routine Analysis of White Linseed Oil Paints, 1036.
Tentative Specifications for Wood to be [illegible]d as Panels in Accelerated Weather Tests of Paints and Varnishes, 745.

Paint Thinners.
See also **Solvents.**
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Tentative Specifications for Spirits of Turpentine, 725.

Paint Vehicles.
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Tentative Specifications for Raw Soybean Oil, 720.

Paper.
Electrical Insulating Materials. Report of Committee D-9, 386.
Tentative Methods of Testing Untreated Paper Used in Electrical Insulation, 839.

Papers and Publications.
Annual Report of the Executive Committee, 32.
Papers and Publications. Report of Committee E-6, 492.
Round-table discussion on industrial applications of particle size measurements, Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.

Paper and Publications (*Continued*):
Round Table Discussion on Spectrographic Analysis, Summary of Proceedings of the Thirty-sixth Annual Meeting, 21.
Summary of Proceedings of the Thirty-sixth Annual Meeting, 1.
Symposium on Motor Lubricants—New York Regional Meeting. Report of Committee E-6 on Papers and Publications, 493.
Parkerized.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Particle Size.
Round-table discussion on industrial applications of particle size measurements, Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.
Tentative Method of Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.
Partition Tile.
Tentative Specifications for Structural Clay Non-Load-Bearing Tile, 671.
Pavements.
Road and Paving Materials. Report of Committee D-4, 348.
Tentative Specifications for Concrete for Pavements, 764.
Tentative Specifications for Ready Mixed Concrete, 703.
Penetration.
Tentative Method of Test for Penetration of Greases and Petrolatum, 756.
Petrolatum.
Tentative Method of Test for Penetration of Greases and Petrolatum, 756.
Petroleum Products.
See also **Bituminous Materials; Oils.**
Grease. Report of Subcommittee IV, Committee D-2, 342.
Petroleum Products and Lubricants. Report of Committee D-2, 332.
A Procedure for Measuring Bleeding of Cup Greases, by Winslow H. Herschel. Report of Subcommittee IV, Committee D-2, Appendix, 343.
Proposed Definitions of the Terms Net Calorific Value and Gross Calorific Value. Report of Committee E-8 on Nomenclature and Definitions, 497.
Symposium on Motor Lubricants—New York Regional Meeting. Report of Committee E-6 on Papers and Publications, 493.
Tentative Methods of Test for:
Bituminous Emulsions, 774.
Knock Characteristics of Motor Fuels, 746.
Penetration of Greases and Petrolatum, 756.
Tentative Revision of Standard Method of Test for Cloud and Pour Points, 1041.
Pigments.
See also **Paints.**
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Round-table discussion on industrial applications of particle size measurements, Report of Technical Committee on Particle Size and Shape, Committee E-1, 446.
Specifications for Pigments Dry and in Oil when Marketed in That Form. Report of Subcommittee XV, Committee D-1, 325.
Tentative Method of Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.

Tentative Revision of:
Standard Methods of Routine Analysis of Yellow and Orange Pigments Containing Chromium Compounds, Blue Pigments and Chrome Green, 1038.
Standard Methods of Routine Analysis of White Linseed Oil Paints, 1036.
Standard Specifications for Basic Carbor te White Lead, 1036.

Pipe and Piping Materials.
See also **Tubes.**
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Standardization of Dimensions and Material of Wrought-Iron and Wrought-Steel Pipe and Tubing. Report of Sectional Committee, 76.
Tentative Method of Test for Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Tentative Method of Test for Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 1031.
Tentative Specifications for:
Clay Sewer Pipe, 691.
Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 572.
Mild Steel Plates, 526.
Steel for Bridges, 511.
Steel for Buildings, 519.
Wrought-Iron Rivets and Rivet Rounds, 587.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.

Plasticity.
Proposed Definitions of the Terms Consistency and Plasticity. Report of Committee E-1 on Methods of Testing, 445.

Plates.
See also **Sheets.**
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Sheet and Plate (Aluminum-Copper-Magnesium-Manganese), 610.
Aluminum-Manganese Alloy Sheet and Plate, 614.
Aluminum Sheet and Plate, 605.
High Tensile Strength Carbon-Steel Plates for Fusion-Welded Pressure Vessels (Plates over 2 in. up to and Including 4 in. in Thickness), 539.
High Tensile Strength Carbon-Steel Plates for Pressure Vessels (Plates 2 in. and Under in Thickness), 533.
Mild Steel Plates, 526.
Steel for Bridges, 511.
Steel for Buildings, 519.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.

Porcelain.
Tentative Revision of Standard Methods of Testing Electrical Porcelain, 1048.

Portland Cement.
See **Cement.**

Pothead Compounds.
Tentative Methods of Testing Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.

Pour Point.
Tentative Revision of Standard Method of Test for Cloud and Pour Points, 1041.
Power Piping.
See **High Temperature; Pipe and Piping Materials.**
Presidential Address.
Introspection. Annual Address by the President, Cloyd M. Chapman, 27.
Pressure Vessels.
See **Boilers.**
Proportional Limit.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Report of Joint Research Committee, Appendix II, 218.
Protective Coatings.
See **Corrosion; Enamels; Galvanizing; Lacquers; Paints; Pigments; Shellac; Timber Preservatives; Tin; Varnish; Zinc.**
Proving Levers.
Tentative Methods of Verification of Testing Machines, 1013.
Publications.
See **Papers and Publications.**
Putty.
Specifications for Pigments Dry and in Oil when Marketed in That Form. Report of Subcommittee XV, Committee D-1, 325.
Pyrometric Cone Equivalent.
See **Softening Point.**

R

Radio Spaghetti.
Tentative Specifications for Flexible Varnished Tubing Used in Electrical Insulation, 815.
Ramie.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Rayon.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Ready Mixed Concrete.
Tentative Specifications for Concrete for Pavements, 764.
Tentative Specifications for Ready Mixed Concrete, 703.
Refractories.
Refractories. Report of Committee C-8, 279.
Tentative Method of Test for:
Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.
High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Resistance of Fire-Clay Brick to Thermal Spalling Action, 689.
Tentative Revision of:
Standard Definitions for Clay Refractories, 1034.
Standard Method of Test for Refractory Materials Under Load at High Temperatures, 1032.
Standard Method of Test for Softening Point of Fire-Clay Brick, 1032.

Tentative Revision of:
Standard Specifications for Clay Fire Brick for Malleable Furnaces with Removable Bungs and for Annealing Ovens, 1032.
Standard Specifications for Clay Fire Brick for Marine Boiler Service, 1032.
Standard Specifications for Clay Fire Brick for Stationary Boiler Service, 1032.

Reinforcement, Concrete.
See **Concrete Reinforcement.**

Repeated Stress.
See **Fatigue.**

Research.
Effect of Temperature on the Properties of Metals. Report of Joint Research Committee, 209.
Research. Report of Committee E-9, 500.

Resilience.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.

Resistance.
Tentative Methods of Testing Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.

Resistance Alloys.
See **Electrical Resistance and Heating Alloys.**

Rivets.
Tentative Specifications for Wrought-Iron Rivets and Rivet Rounds, 587.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.

Road Materials.
See also **Aggregates; Bituminous Materials; Concrete; Pavements.**
(Items on road materials are also indexed under the materials and subjects covered by them.)
Road and Paving Materials. Report of Committee D-4, 348.

Rockwell Hardness.
See **Hardness Testing.**

Rods.
Tentative Specifications for Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.

Roofing.
Accelerated Weathering Tests. Report of Subcommittee VIII, Committee D-8, 379.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 374.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Tentative Methods of Testing Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules, also Asphalt Shingles Surfaced with Mineral Granules, 799.
Tentative Specifications for:
Asphalt Cap Sheet Surfaced with Mineral Granules, 778.
Asphalt Roll-Roofing and Asphalt Shingles Surfaced with Mineral Granules, 786.
Asphalt Roll-Roofing Surfaced with Granular Talc, 791.
Asphalt Roll-Roofing Surfaced with Powdered Talc, 795.
Heavy Weight Asphalt Roll-Roofing and Heavy Weight Asphalt Shingles Surfaced with Mineral Granules, 781.

Rosin.
Naval Stores. Report of Committee D-17, 435.
Proposed Method of Test for Viscosity of Rosin (Ring-and-Ball Method). Report of Committee D-17, Appendix II, 441.
Proposed Methods of Sampling and Testing Rosin. Report of Committee D-17, Appendix I, 437.
Viscosity of rosin determined in cooperative tests using proposed viscosity test (ring-and-ball method), 436.
Roving.
Tentative Specifications for Asbestos Roving, 921.
Rubber Products.
Life Tests for Rubber Products. Report of Subcommittee XV, Committee D-11, 412.
Rubber Products. Report of Committee D-11, 405.
Tentative Methods of Test for:
Rubber Belting Used for Power Transmission, 904.
Rubber Hose, Braided Construction, 909.
Rubber Hose, Wrapped Construction, 915.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tentative Specifications for Insulated Wire and Cable: Performance Rubber Compound, 894.

S

Salt Spray Test.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.
Sampling.
(Methods of sampling are indexed under the materials and subjects covered by them.)
Sand.
See also **Aggregates.**
Tentative Method of Test for Absorption by Aggregates for Concrete (Laboratory Determinations), 711.
Tentative Method of Field Test for Absorption of Mixing Water by Aggregates for Concrete, 713.
Sea Water Corrosion.
See **Immersion Tests.**
Set Test.
Tentative Methods of Test for Rubber Hose, Braided Construction, 909.
Tentative Methods of Test for Rubber Hose, Wrapped Construction, 915.
Sewer Pipe.
Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 1031.
Tentative Specifications for Clay Sewer Pipe, 691.
Shapes.
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Steel for Bridges, 511.
Steel for Buildings, 519.

Shear Test.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Sheets.
See also **Plates.**
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Tentative Methods of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 828.
Tentative Methods of Testing Sheet and Tape Electrical Insulation for Thickness, 860.
Tentative Specifications for:
Aluminum-Alloy (Duralumin) Sheet and Plate (Aluminum-Copper-Magnesium-Manganese), 610.
Aluminum-Manganese Alloy Sheet and Plate, 614.
Aluminum Sheet and Plate, 605.
Asphalt Cap Sheet Surfaced with Mineral Granules, 778.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.
Shellac.
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Tentative Specifications for Centrifuged Shellac Varnish, 729.
Tentative Specifications for Shellac Varnish, 727.
Sherardized.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Shingles.
Tentative Methods of Testing Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules; also Asphalt Shingles Surfaced with Mineral Granules, 799.
Tentative Specifications for Asphalt Roll-Roofing and Asphalt Shingles Surfaced with Mineral Granules, 786.
Tentative Specifications for Heavy Weight Asphalt Roll-Roofing and Heavy Weight Asphalt Shingles Surfaced with Mineral Granules, 781.
Ships.
Tentative Specifications for Carbon-Steel Castings for Industrial, Railroad and Marine Uses, 544.
Short-Time High-Temperature Tests.
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Report of Joint Research Committee, Appendix I, 213.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Report of Joint Research Committee, Appendix II, 218.
The Significance of the Results of Short-Time High-Temperature Tension Tests. Report of Joint Research Committee, Appendix III, 225.
Tentative Method of Test for Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Shrinkage Test.
Tentative Methods of Testing High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.
Tentative Revision of Standard Specifications for Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1045.

Sieves.
Tentative Method of Analysis for the Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.
Silk.
Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Slag.
See also **Aggregates.**
Tentative Method of Field Test for Absorption of Mixing Water by Aggregates for Concrete, 713.
Tentative Method of Test for Absorption by Aggregates for Concrete (Laboratory Determinations), 711.
Tentative Revision of Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 1042.
Tentative Revision of Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1043.
Slate Covered Roofing.
Tentative Methods of Testing Asphalt Roll-Roofing Surfaced with Fine Talc, Granular Talc or Mineral Granules; also Asphalt Shingles Surfaced with Mineral Granules, 799.
Tentative Specifications for:
Asphalt Cap Sheet Surfaced with Mineral Granules, 778.
Asphalt Roll-Roofing and Asphalt Shingles Surfaced with Mineral Granules, 786.
Heavy Weight Asphalt Roll-Roofing and Heavy Weight Asphalt Shingles Surfaced with Mineral Granules, 781.
Sludge Tests.
Electrical Insulating Materials. Report of Committee D-9, 386.
Softening Point.
Tentative Revision of:
Standard Definitions for Clay Refractories, 1034.
Standard Method of Test for Softening Point of Fire-Clay Brick, 1032.
Standard Specifications for Clay Fire Brick for Malleable Furnaces with Removable Bungs and for Annealing Ovens, 1032.
Standard Specifications for Clay Fire Brick for Marine Boiler Service, 1032.
Standard Specifications for Clay Fire Brick for Stationary Boiler Service, 1032.
Solvents.
See also **Extraction, Methods of; Paint Thinners; Paint Vehicles.**
Cellulose Ester Coatings. Report of Subcommittee XXV, Committee D-1, 327.
Tentative Specifications for:
Industrial Pure Toluene (Toluol), 732.
Industrial 90 per cent Benzene (Benzol), 731.
Industrial Xylene (Xylol) or Solvent Naphtha, 736.
Tricresyl Phosphate, 733.
Soundness.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.

Soybean Oil.
Tentative Specifications for Raw Soybean Oil, 720.
Spalling Test.
Tentative Method of Control Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 689.
Specifications.
(Specifications are indexed under the materials covered by them.)
Specific Gravity.
A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus, by H. R. Nettles and J. M. Holme. Report of Committee C-9, Appendix III, 297. Discussion, 306.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Spectrographic Analysis.
Round Table Discussion on Spectrographic Analysis, Summary of Proceedings of the Thirty-sixth Annual Meeting, 21.
Spray Test.
See **Salt Spray Test.**
Springs.
Tentative Specifications for Heat-Treated Steel Elliptical Springs, 564.
Stainless Steel.
See **Alloy Steel; Chromium Steel.**
Standardization.
Annual Report of the Executive Committee, 32.
Cement Reference Laboratory. Report of Subcommittee, Committee C-1, 272.
Introspection. Annual Address by the President, Cloyd M. Chapman, 27.
Standards. Report of Committee E-10, 503.
Summary of Proceedings of the Thirty-sixth Annual Meeting, 1.
Statistical Analysis.
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Methods of Testing. Report of Committee E-1, 443.
Report of Committee on Manual on Presentation of Data (1933). Report of Committee E-1, Appendix, 451.
Steel.
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Report of Joint Research Committee, Appendix I, 213.
Corrosion of Iron and Steel. Report of Committee A-5, 140.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Report of Joint Research Committee, Appendix II, 218.
Effect of Temperature on the Properties of Metals. Report of Joint Research Committee, 209.
Embrittlement Investigation. Report of Subcommittee X, Committee A-5, 166.
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Heat Treatment of Iron and Steel. Report of Committee A-4, 138.
Iron-Chromium, Iron-Chromium-Nickel and Related Alloys. Report of Committee A-10, 176.
Magnetic Properties. Report of Committee A-6, 173.
Methods of Corrosion Testing. Report of Subcommittee IV, Committee A-10, 178.

Steel (*Continued*):
Proposed Revisions in Standards and Tentative Standards for Steel. Report of Committee A-1, Appendix, 66.
Specifications for Metallic-Coated Products. Report of Subcommittee VI, Committee A-5, 147.
Standardization of Dimensions and Material of Wrought-Iron and Wrought-Steel Pipe and Tubing. Report of Sectional Committee, 76.
Steel. Report of Committee A-1, 53.
Tentative Methods of Test for:
Compression Testing of Metallic Materials, 959.
Impact Testing of Metallic Materials, 976.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Revision of:
Standard Specifications for Cold-Drawn Steel Wire for Concrete Reinforcement, 1028.
Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 1028.
Standard Specifications for Quenched-and-Tempered Alloy-Steel Axles, Shafts and Other Forgings for Locomotives and Cars, 1027.
Standard Specifications for Quenched-and-Tempered Carbon-Steel Axles, Shafts, and Other Forgings for Locomotives and Cars, 1027.
Tentative Specifications for:
Alloy-Steel Castings for Structural Purposes, 553.
Carbon-Steel Castings for Industrial, Railroad and Marine Uses, 544.
Heat-Treated Steel Elliptical Springs, 564.
High Tensile Strength Carbon-Steel Plates for Fusion-Welded Pressure Vessels (Plates over 2 in. up to and Including 4 in. in Thickness), 539.
High Tensile Strength Carbon-Steel Plates for Pressure Vessels (Plates 2 in. and Under in Thickness), 533.
Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 572.
Mild Steel Plates, 526.
Normalized and Tempered Alloy-Steel Forgings for Locomotives, 559.
Steel for Bridges, 511.
Steel for Buildings, 519.
Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.
Total Immersion Tests. Report of Subcommittee V, Committee A-5, 144.
Zinc Coating of Iron and Steel. Report of Sectional Committee, 170.

Stone.
See also **Aggregates.**
Tentative Method of Field Test for Absorption of Mixing Water by Aggregates for Concrete, 713.
Tentative Method of Test for Absorption by Aggregates for Concrete (Laboratory Determinations), 711.
Tentative Revision of:
Standard Specifications for Block for Durax Granite Pavements, 1043.
Standard Specifications for Block for Granite Block Pavements, 1043.
Standard Specifications for Block for Recut Granite Block Pavements, 1043.

Structural Clay Tile.
See **Tile.**
Structural Light Alloys.
Tentative Specifications for Aluminum-Alloy (Duralumin) Bars, Rods and Shapes (Aluminum-Copper-Magnesium-Manganese), 600.
Structural Steel.
See also **Steel.**
Report on inspection of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Specifications for:
Carbon-Steel Castings for Industrial, Railroad and Marine Uses, 544.
Mild Steel Plates, 526.
Steel for Bridges, 511.
Steel for Buildings, 519.
Structural Timber.
See **Timber.**
Summary of Proceedings.
Summary of Proceedings of the Thirty-sixth Annual Meeting, 1.

T

Tape.
See also **Rubber Products; Textile Materials.**
Tentative Methods of Test for:
Sheet and Tape Electrical Insulation for Thickness, 860.
Sheet and Tape Insulating Materials for Dielectric Strength, 828.
Varnished Cloths and Varnished Cloth Tapes Used in Electrical Insulation, 864.
Tentative Specifications for Black Bias-Cut Varnished Cloth Tape Used for Electrical Insulation, 809.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tear Test.
Tentative Methods of Testing Untreated Paper Used in Electrical Insulation, 839.
Tentative Revision of Standard General Methods of Testing Woven Textile Fabrics, 1047.
Tentative Revision of Standard Specifications for Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1045.
Temperature, Effect of.
See also **Heat Treatment; High-Temperature.**
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Report of Joint Research Committee, Appendix I, 213.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Report of Joint Research Committee, Appendix II, 218.
Effect of Temperature on the Properties of Metals. Report of Joint Research Committee, 209.
The Significance of the Results of Short-Time High-Temperature Tension Tests. Report of Joint Research Committee, Appendix III, 225.

Temperature, Effect of (*Continued*):
Tentative Method of Test for Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Tentative Method of Test for Short-Time High-Temperature Tension Tests of Metallic Materials, 996.

Tension Testing.
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Report of Joint Research Committee, Appendix I, 213.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Report of Joint Research Committee, Appendix II, 218.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
The Significance of the Results of Short-Time High-Temperature Tension Tests. Report of Joint Research Committee, Appendix III, 225.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Methods of Test for:
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Rubber Belting Used for Power Transmission, 904.
Rubber Hose, Braided Construction, 909.
Rubber Hose, Wrapped Construction, 915.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Untreated Paper Used in Electrical Insulation, 839.
Varnished Cloths and Varnished Cloth Tapes Used in Electrical Insulation, 864.
Verification of Testing Machines, 1013.
Tentative Revision of Standard General Methods of Testing Woven Textile Fabrics, 1047.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tentative Specifications for Insulated Wire and Cable: Performance Rubber Compound, 894.

Testing Apparatus.
See also **Testing, Physical Methods of.**
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Second Exhibit of Testing Apparatus and Machines. Annual Report of the Executive Committee, 50.
Tentative Methods of Test for:
Compression Testing of Metallic Materials, 959.
Impact Testing of Metallic Materials, 976.
Knock Characteristics of Motor Fuels, 746.
Rockwell Hardness Testing of Metallic Materials, 967.
Verification of Testing Machines, 1013.

Testing, Physical Methods of.
(Methods of analysis, sampling, testing, etc., and revisions thereof, are indexed under the materials and subjects covered by them.)
Methods of Testing. Report of Committee E-1, 443.
A Procedure for Measuring Bleeding of Cup Greases, by Winslow H. Herschel. Report of Subcommittee IV, Committee D-2, Appendix, 343.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Proposed Method of Test for Viscosity of Rosin (Ring-and-Ball Method). Report of Committee D-17, Appendix II, 441.
Proposed Methods of Sampling and Testing Rosin. Report of Committee D-17, Appendix I, 437.
Report of Committee on Manual on Presentation of Data (1933). Report of Committee E-1, Appendix, 451.
Tentative Methods of Test for:
Compression Testing of Metallic Materials, 959.
Impact Testing of Metallic Materials, 976.
Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Particle Size Distribution of Sub-Sieve Size Particulate Substances, 989.
Rockwell Hardness Testing of Metallic Materials, 967.
Short-Time High-Temperature Tension Tests of Metallic Materials, 996.

Test Specimen.
Impact Testing of Cast Iron. Report of Subcommittee XV, Committee A-3, 87.

Thermostatic Metals.
Electrical-Heating, Electrical-Resistance and Electric-Furnace Alloys. Report of Committee B-4, 252.

Thinners, Paint.
See **Paint Thinners; Solvents.**

Textile Materials.
Proposed Revisions in Standards for Textile Materials. Report of Committee D-13, Appendix I, 428.
Tentative Definitions and Terms Relating to Textile Materials, 944.
Tentative Methods of Test for:
Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Sheet and Tape Electrical Insulation for Thickness, 860.
Small Amounts of Copper and Manganese in Textiles, 927.
Varnished Cloths and Varnished Cloth Tapes Used in Electrical Insulation, 864.
Tentative Revision of:
Standard General Methods of Testing Woven Textile Fabrics, 1047.
Standard Specifications for Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1045.
Standard Specifications for Tolerances for Hose and Belt Ducks, 1044.
Tentative Specifications for:
Asbestos Roving, 921
Black Bias-Cut Varnished Cloth Tape Used for Electrical Insulation, 809.
Holland Cloth, 924.
Textile Materials. Report of Committee D-13, 417.

Thawing Tests.
See **Freezing-and-Thawing Tests.**
Thickness.
Tentative Methods of Testing Sheet and Tape Electrical Insulation for Thickness, 860.
Tile.
Hollow Masonry Building Units. Report of Committee C-10, 308.
Tentative Definitions of Terms Relating to Structural Clay Tile, 682.
Tentative Specifications for:
Load-Bearing Concrete Masonry Units, 678.
Structural Clay Floor Tile, 667.
Structural Clay Load-Bearing Wall Tile, 674.
Structural Clay Non-Load-Bearing Tile, 671.
Timber.
Proposed Revisions in Standard Specifications for Structural Wood Joist and Planks, Beams and Stringers, and Posts and Timbers (D 245 – 30). Report of Committee D-7, Appendix, 366.
Tentative Specifications for Wood to be Used as Panels in Accelerated Weather Tests of Paints and Varnishes, 745.
Timber. Report of Committee D-7, 360.
Timber Preservatives.
Tentative Revision of Standard Definitions of Terms Relating to Timber Preservatives, 1035.
Timber Preservatives. Report of Subcommittee VI, Committee D-7, 369.
Tin.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Toluene.
Tentative Specifications for Industrial Pure Toluene (Toluol), 732.
Toughness.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Transverse Testing.
See **Flexure Testing.**
Tricresyl Phosphate.
Tentative Specifications and Tests for Tricresyl Phosphate, 733.
Tubes.
See also **Pipe and Piping Materials.**
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Standardization of Dimensions and Material of Wrought-Iron and Wrought-Steel Pipe and Tubing. Report of Sectional Committee, 76.
Tentative Method of Test for Long-Time (Creep) High-Temperature Tension Tests of Metallic Materials, 1004.
Tentative Method of Test for Short-Time High-Temperature Tension Tests of Metallic Materials, 996.
Tentative Revision of Standard Specifications for Lap-Welded and Seamless Steel and Lap-Welded Iron Boiler Tubes, 1028.
Tentative Specifications for Flexible Varnished Tubing Used in Electrical Insulation, 815.

Turpentine.
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Tentative Specifications for Spirits of Turpentine, 725.

U

Unit Weight.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.

V

Varnish.
Electrical Insulating Materials. Report of Committee D-9, 386.
Preservative Coatings for Structural Materials. Report of Committee D-1, 313.
Tentative Methods of Testing Varnished Cloths and Varnished Cloth Tapes Used in Electrical Insulation, 864.
Tentative Specifications for:
Black Bias-Cut Varnished Cloth Tape Used for Electrical Insulation, 809.
Centrifuged Shellac Varnish, 729.
Flexible Varnished Tubing Used in Electrical Insulation, 815.
Shellac Varnish, 727.
Wood to be Used as Panels in Accelerated Weather Tests of Paints and Varnishes, 745.
Vehicles, Paint.
See **Paint Vehicles.**
Viscosity.
See also **Consistency; Penetration.**
Proposed Method of Test for Viscosity of Rosin (Ring-and-Ball Method). Report of Committee D-17, Appendix II, 441.
Tentative Methods of Test for Soluble Nitrocellulose Base Solutions, 737.
Tentative Methods of Testing Nitrocellulose Clear Lacquers and Lacquer Enamels, 741.
Viscosity of rosin determined in cooperative tests using proposed viscosity test (ring-and-ball method), 436.
Voids.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Specifications for Concrete for Pavements, 764.
Volume Change.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.
Tentative Methods of Testing Compounds Used for Splicing Electrical Cables and Filling Potheads, 818.
Tentative Methods of Testing High-Temperature Heat Insulation (Compression, Flexure, Shrinkage), 684.

W

Water.
See also **Absorption; Moisture.**
The Action of Water on Concrete, by B. Kellam. Report of Committee C-9, Appendix II, 289.

Water-Gas Tar.
Tentative Revision of Standard Definitions of Terms Relating to Timber Preservatives, 1035.

Waterproofing.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 374.

Weathering Tests.
Accelerated Weathering Tests. Report of Subcommittee VIII, Committee D-8, 379.
The Action of Water on Concrete, by B. Kellam. Report of Committee C-9, Appendix II, 289.
Proposed Method for Accelerated Weathering Tests on Bituminous Materials. Report of Subcommittee VIII, Committee D-8, Appendix, 381.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Tentative Specifications for Wood to be Used as Panels in Accelerated Weather Tests of Paints and Varnishes, 745.

Weight.
Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.

Welding.
Tentative Specifications for:
High Tensile Strength Carbon-Steel Plates for Fusion-Welded Pressure Vessels (Plates over 2 in. up to and Including 4 in. in Thickness), 539.
High Tensile Strength Carbon-Steel Plates for Pressure Vessels (Plates 2 in. and Under in Thickness), 533.
Mild Steel Plates, 526.
Steel for Bridges, 511.
Steel for Buildings, 519.

White Lead.
Specifications for Pigments Dry and in Oil when Marketed in That Form. Report of Subcommittee XV, Committee D-1, 325.
Tentative Revision of Standard Specifications for Basic Carbonate White Lead, 1036.

Wire.
Electrical-Heating, Electrical-Resistance and Electric-Furnace Alloys. Report of Committee B-4, 252.
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Specifications for Metallic-Coated Products. Report of Subcommittee VI, Committee A-5, 147.
Tentative Methods of Chemical Analysis of Metallic Materials for Electrical Heating, 648.
Tentative Revision of Standard Specifications for Cold-Drawn Steel Wire for Concrete Reinforcement, 1028.
Tentative Specifications for Insulated Wire and Cable: 30 per cent Hevea Rubber, 871.
Tentative Specifications for Insulated Wire and Cable: Performance Rubber Compound, 894.

Wood.

See **Timber.**

Wood Turpentine.

See **Turpentine.**

Wool.

Tentative Methods for the Identification of Fibers in Textiles and for the Quantitative Analysis of Textiles, 931.
Textile Materials. Report of Committee D-13, 417.

Workability.

Summary of Report on Significance of Tests of Concrete and Concrete Aggregates. Report of Committee C-9, Appendix I, 288.

Wrought Iron.

Standardization of Dimensions and Material of Wrought-Iron and Wrought-Steel Pipe and Tubing. Report of Sectional Committee, 76.
Tentative Methods of Impact Testing of Metallic Materials, 976.
Tentative Specifications for Wrought-Iron Rivets and Rivet Rounds, 587.
Wrought Iron. Report of Committee A-2, 79.

X

Xylene.

Tentative Specifications for Industrial Xylene (Xylol) or Solvent Naphtha, 736.

Y

Yarns.

See **Textile Materials.**

Yield Strength.

Tentative Methods of Compression Testing of Metallic Materials, 959.

Zinc.

See also **Galvanizing.**
Die-Cast Metals and Alloys. Report of Committee B-6, 262.
Field Tests of Metallic Coatings. Report of Subcommittee VIII, Committee A-5, 149.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 226.
Report on inspection of atmospheric corrosion tests of non-ferrous metals and alloys exposed at nine test locations, 244.
Report on inspections of metallic coatings on hardware, structural shapes, tubular goods, etc., exposed to atmosphere on test racks at five locations, 156.
Tentative Methods of Rockwell Hardness Testing of Metallic Materials, 967.
Tentative Specifications for Zinc-Base Alloy Die Castings, 644.
Tentative Specifications for Zinc Coating (Hot-Dip) on Hardware and Fastenings, 583.
Zinc Coating of Iron and Steel. Report of Sectional Committee, 170.

AUTHOR INDEX

A

Allen, R. M.
Microstructure of Irons in Impact Investigation. Appendix, Report of Subcommittee XV, Committee A-3, 130.

Anderson, H. A.
Report of Committee B-6 on Die-Cast Metals and Alloys, 262.

Anderson, R. P.
Report of Committee D-2 on Petroleum Products and Lubricants, 332.

Arness, W. B.
Discussion, 207.

Aston, James.
Report of Committee A-5 on Corrosion of Iron and Steel, 140.

B

Bales, C. E.
Report of Committee C-8 on Refractories, 279.

Ball, H. J.
Report of Committee D-13 on Textile Materials, 417.

Bash, F. E.
Report of Committee B-4 on Electrical-Heating, Electrical-Resistance and Electric-Furnace Alloys, 252.

Bates, P. H.
Report of Committee C-1 on Cement, 269.

Bertin, R. L.
Uniformity. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.

Bigler, H. P.
Report of Committee A-1 on Steel, 53.

Bole, G. A.
Report of Committee C-8 on Refractories, 279.

Bolton, J. W.
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Appendix I, Report of Joint Research Committee, 213.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Appendix II, Report of Joint Research Committee, 218.
The Significance of the Results of Short-Time High-Temperature Tension Tests. Appendix III, Report of Joint Research Committee, 225.

Bornstein, Hyman.
Report of Committee A-3 on Cast Iron, 84.

Boyd, T. A.
Report of Committee D-2 on Petroleum Products and Lubricants, 332.

C

Campbell, A. B.
Report of Sectional Committee on Zinc Coating of Iron and Steel, 170.

Campbell, William.
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 226.

Capp, J. A.
Report of Sectional Committee on Zinc Coating of Iron and Steel, 170.

Carpenter, Arthur W.
Report of Committee D-11 on Rubber Products, 405.

Carter, R. M.
Report of Subcommittee XXV, Committee D-1, on Cellulose Ester Coatings, 327.

Chapman, Cloyd M.
Annual Report of the Executive Committee, 32.
Introspection. Annual Address by the President, 27.
Report of Committee E-8 on Nomenclature and Definitions, 496.

Church, S. R.
Report of Subcommittee VI, Committee D-7, on Timber Preservatives, 369.

Clemmer, H. F.
Abrasion Tests of Aggregates. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Report of Committee D-4 on Road and Paving Materials, 348.

Conn, C. F.
Report of Subcommittee, Committee C-1, on Cement Reference Laboratory, 272.

Crampton, D. K.
Report of Committee B-5 on Copper and Copper Alloys, Cast and Wrought, 258.

Crocker, Sabin.
Report of Sectional Committee on Standardization of Dimensions and Material of Wrought-Iron and Wrought-Steel Pipe and Tubing, 76.

Crum, R. W.
The Numbers of Specimens or Tests Required for Reasonable Accuracy of the Average. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Report of Committee C-9 on Concrete and Concrete Aggregates, 285.

Curtis, H. L.
Report of Committee D-9 on Electrical Insulating Materials, 386.

D

Davis, C. H.
Report of Committee E-4 on Metallography, 489.

Davis, R. E.
Volume Changes. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.

Depew, H. A.
Report of Committee D-11 on Rubber Products, 405.

Dodge, H. F.
Report of Committee, Committee E-1, on Manual on Presentation of Data (1933), 451.

Dunagan, W. M.
Discussion, 306.

E

Emery, F. E.
Report of Committee C-10 on Hollow Masonry Building Units, 308.

F

Faragher, P. V.
Report of Committee B-6 on Die-Cast Metals and Alloys, 262.
Farnsworth, F. F.
Report of Subcommittee VI, Committee A-5, on Specifications for Metallic-Coated Products, 147.
Faus, H. W.
Report of Committee A-2 on Wrought Iron, 79.
Fieldner, A. C.
Report of Committee D-5 on Coal and Coke, 353.
Report of Sectional Committee on Classification of Coals, 357.
Finkeldey, William H.
Report of Subcommittee VI, Committee B-3, on Atmospheric Corrosion of Non-Ferrous Metals and Alloys, 234.
French, H. J.
Report of Joint Research Committee on Effect of Temperature on the Properties of Metals, 209.
Fuller, T. S.
Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 232.
Fulweiler, W. H.
Report of Committee E-1 on Methods of Testing, 443.

G

Gibboney, J. H.
Report of Committee A-5 on Corrosion of Iron and Steel, 140.
Gillett, H. W.
Discussion, 124.
Ginder, J. W.
Report of Committee C-11 on Gypsum, 311.
Goldbeck, A. T.
Shearing and Torsional Strength, and Tensile and Transverse Strengths. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.

H

Hall, J. H.
Report of Committee A-4 on Heat Treatment of Iron and Steel, 138.
Hammel, V. F.
Report of Subcommittee X, Committee A-5, on Embrittlement Investigation, 166.
Harder, O. E.
Report of Committee E-4 on Metallography, 489.
Harnden, G. H.
Report of Subcommittee IV, Committee D-2, on Grease, 342.
Harvey, Dean.
Report of Committee B-4 on Electrical-Heating, Electrical-Resistance and Electric-Furnace Alloys, 252.
Heller, P. A.
Discussion, 123.
Herschel, Winslow H.
A Procedure for Measuring Bleeding of Cup Greases. Appendix, Report of Subcommittee IV, Committee D-2, 343.

Hess, R. E.
Report of Committee E-1 on Methods of Testing, 443.
Report of Committee E-8 on Nomenclature and Definitions, 496.
Holme, J. M.
A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus. Appendix III, Report of Committee C-9, 297.
Hubbard, Fred.
Gradation, Specific Gravity, Unit Weight and Voids of Concrete. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Hubbard, Prévost.
Report of Committee D-4 on Road and Paving Materials, 348.
Report of Committee D-8 on Bituminous Waterproofing and Roofing Materials, 374.
Huey, W. R.
Report of Subcommittee IV, Committee A-10, on Methods of Corrosion Testing, 178.
Huntress, C. B.
Report of Sectional Committee on Classification of Coals, 357.
Hurst, J. E.
Discussion, 124.

J

Jackson, F. H.
Mortar Strength Tests of Fine Aggregates. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Jungbluth, H.
Discussion, 123.

K

Kanter, J. J.
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Appendix I, Report of Joint Research Committee, 213.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Appendix II, Report of Joint Research Committee, 218.
The Significance of the Results of Short-Time High-Temperature Tension Tests. Appendix III, Report of Joint Research Committee, 225.
Kellam, B.
The Action of Water on Concrete. Appendix II, Report of Committee C-9, 289.
Kelly, J. W.
Volume Changes. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Kommers, J. B.
Discussion, 124.
Kriege, H. F.
Routine Analysis of Cement Content of Hardened Portland Cement Concrete. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.

L

Lang, F. C.
Deleterious Substances. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Lawson, T. R.
Report of Committee E-10 on Standards, 503.
le Thomas, A.
Discussion, 124.

Litehiser, R. R.
Report of Committee C-9 on Concrete and Concrete Aggregates, 285.
Lyse, Inge.
Compression Tests. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.

M

MacKenzie, J. T.
Report of Subcommittee XV, Committee A-3, on Impact Testing, 87.
Report of Committee, Committee E-1, on Manual on Presentation of Data (1933), 451.
Margerum, C. E.
Discussion, 207.
Mathewson, C. H.
Report of Committee B-5 on Copper and Copper Alloys, Cast and Wrought, 258.
McKinney, P. E.
Discussion, 206, 207, 208.
Miller, R. P.
Report of Committee C-5 on Fire Tests of Materials and Construction, 275.
Mochel, N. L.
Report of Joint Research Committee on Effect of Temperature on the Properties of Metals, 209.
Moore, H. F.
Cooperative Short-Time High-Temperature Tension Tests of Carbon Steel K6. Appendix I, Report of Joint Research Committee, 213.
The Determination and Significance of "Proportional Limit" and "Breaking Strength" in Short-Time High-Temperature Tests. Appendix II, Report of Joint Research Committee, 218.
Report of Committee E-9 on Research, 500.
The Significance of the Results of Short-Time High-Temperature Tension Tests. Appendix III, Report of Joint Research Committee, 225.
Morgan, H. H.
Report of Committee A-1 on Steel, 53.
Report of Sectional Committee on Standardization of Dimensions and Material of Wrought-Iron and Wrought-Steel Pipe and Tubing, 76.
Myers, Bert.
Free Moisture and Absorption. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.

N

Nettles, H. R.
A Study of the Analysis of Fresh Concrete with the Dunagan Buoyancy Apparatus. Appendix III, Report of Committee C-9, 297.
Newell, H. D.
Report of Committee A-10 on Iron-Chromium, Iron-Chromium-Nickel and Related Alloys, 176.
Newlin, J. A.
Report of Committee D-7 on Timber, 360.

O

Olcott, F. B.
Report of Subcommittee V, Committee A-5, on Total Immersion Tests, 144.

P

Passano, R. F.
Report of Subcommittee VIII, Committee A-5, on Field Tests of Metallic Coatings, 149.
Discussion, 206, 207.
Parsons, D. E.
Report of Committee C-10 on Hollow Masonry Building Units, 308.
Paul, M. Rea.
Report of Committee D-1 on Preservative Coatings for Structural Materials, 313.
Pearce, J. G.
Discussion, 125.
Pearson, J. C.
Workability. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Porter, H. C.
Report of Committee D-5 on Coal and Coke, 353.
Putnam, W. P.
Report of Committee A-7 on Malleable Iron Castings, 175.

R

Richart, F. E.
Elastic Properties. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Rogers, Allen.
Report of Committee D-1 on Preservative Coatings for Structural Materials, 313.
Rother, W. H.
Report of Committee A-3 on Cast Iron, 84.

S

Saeger, G. A.
Report of Committee C-1 on Cement, 269.
Sanford, R. L.
Report of Committee A-6 on Magnetic Properties, 173.
Schatzel, R. A.
Report of Subcommittee XV, Committee D-11, on Life Tests for Rubber Products, 412.
Scholer, C. H.
Durability and Wear Tests. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Schweim, H. J.
Report of Committee C-11 on Gypsum, 311.
Scott, J. A.
Report of Committee D-9 on Electrical Insulating Materials, 386.
Selvig, W. A.
Report of Committee D-5 on Coal and Coke, 353.
Shaw, John.
Discussion, 126.
Smith, H. E.
Report of Subcommittee XV, Committee D-1, on Specifications for Pigments Dry and in Oil When Marketed in That Form, 325.
Speh, C. F.
Report of Committee D-17 on Naval Stores, 435.

Spooner, Thomas.
Report of Committee A-6 on Magnetic Properties, 173.
Strauss, Jerome.
Report of Committee A-10 on Iron-Chromium, Iron-Chromium-Nickel and Related Alloys, 176.
Strieter, O. G.
Report of Subcommittee VIII, Committee D-8, on Accelerated Weathering Tests, 379.
Sugimura, I.
Discussion, 124.

T

Taylor, Fitzhugh.
Report of Committee C-5 on Fire Tests of Materials and Construction, 275.
Thum, E. E.
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 226.
Touceda, Enrique.
Report of Committee A-7 on Malleable Iron Castings, 175.
Tour, Sam.
Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 232.
Discussion, 206, 207, 208.
Trewin, C. S.
Report of Subcommittee X, Committee A-5, on Embrittlement Investigation, 166.

V

Veitch, F. P.
Report of Committee D-17 on Naval Stores, 435.
von Schrenk, Hermann.
Report of Committee D-7 on Timber, 360.

W

Walker, Stanton.
Soundness of Aggregates. Summary of Report on Significance of Tests of Concrete and Concrete Aggregates, 288.
Warwick, C. L.
Annual Report of the Executive Committee, 32.
Report of Committee E-6 on Papers and Publications, 492.
Report of Committee E-9 on Research, 500.
Report of Committee E-10 on Standards, 503.
Webster, R. T.
Report of Committee, Committee E-1, on Manual on Presentation of Data (1933), 451.
Weiss, J. M.
Report of Committee D-8 on Bituminous Waterproofing and Roofing Materials, 374.
Westman, A. E. R.
Report of Committee, Committee E-1, on Manual on Presentation of Data (1933), 451.
Whitcomb, W. H.
Report of Committee D-13 on Textile Materials, 417.
Woodroffe, G. H.
Report of Committee A-2 on Wrought Iron, 79.

DEC -1 1934